

UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,137	10/06/2005	Dirk Franke	12810-00150-US	7129
	7590 07/06/200 BOVE LODGE & HUT	EXAMINER		
P O BOX 2207			JAISLE, CECILIA M	
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER .
			1624	
			MAIL DATE	DELIVERY MODE
			07/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		Application No.				
		10/552,137	FRANKE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Cecilia M. Jaisle	1624			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>06 Oc</u>	ctober 2005.				
	This action is FINAL . 2b)⊠ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	ınder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
,-	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
			•			
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) X Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>6 Oct. 2005</u> .	5) Notice of Informal Page 1990. 6) Other:	atent Application			

Art Unit: 1624

DETAILED OFFICE ACTION

Abstract

Applicant is reminded of the proper content of an Abstract of the Disclosure.

In chemical patent abstracts for compounds or compositions, the general nature of the compound or composition should be given as well as its use, e.g., "The compounds are of the class of alkyl benzene sulfonyl ureas, useful as oral anti-diabetics." Exemplification of a species could be illustrative of members of the class. For processes, the type reaction, reagents and process conditions should be stated, generally illustrated by a single example unless variations are necessary. The Abstract at present is too vague to be of value to future researchers

Complete revision of the content of the abstract is required on a separate sheet.

Rejections Under 35 USC 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-20 are rejected under 35 U.S.C. 102(b) over Canadian 2,306,502, to Nowotny, et al., published 10/30/00. Claim 1, step b) requires that the process takes place "without initially treating the resulting ribo-flavin solution in mineral acid with activated carbon." Nowotny clearly teaches (page 2, lines 11-23) "dissolution takes place by a protonation reaction ... [which] usually takes up to about 30 minutes depending on the temperature and intermixing." This dissolution of Nowotny takes place **before** the active charcoal is added. Claim 1 does not totally prohibit the addition

Art Unit: 1624

of activated charcoal, but simply requires that the process take place "without <u>initially</u> treating the resulting ribo-flavin solution in mineral acid with activated carbon."

Nowotny teaches all other claimed reaction parameters. The temperature is usually about 5° to about 25° C, the mineral acid may be hydrochloric or nitric acid, and dissolution takes up to about 30 min (page 2, *inter alia*). Precipitation may be carried out continuously (page 7, *inter alia*). The riboflavin may be dried by fluidized bed spray (page 5, *inter alia*). Precipitation may also be carried out in a two-stage system with about 2-4 min average residence time in the first tank and temperature of about 10° C (page 7, *inter alia*). The drying gas temperature can be about 150° C to about 240° C (page 5, *inter alia*). A portion of riboflavin can recycle back to the drying process (4, *inter alia*). Accordingly, Nowotny anticipates the terms of the claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cecilia M. Jaisle, J.D. whose telephone number is 571-272-9931. The examiner can normally be reached on Monday through Friday; 8:30 am through 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/552,137 Page 4

Art Unit: 1624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cecilia M. Jaisle, J.D.

MARK L BERCH PRIMARY EXAMINER GROUP 120 - ART UNIT 1624

Mark Ber